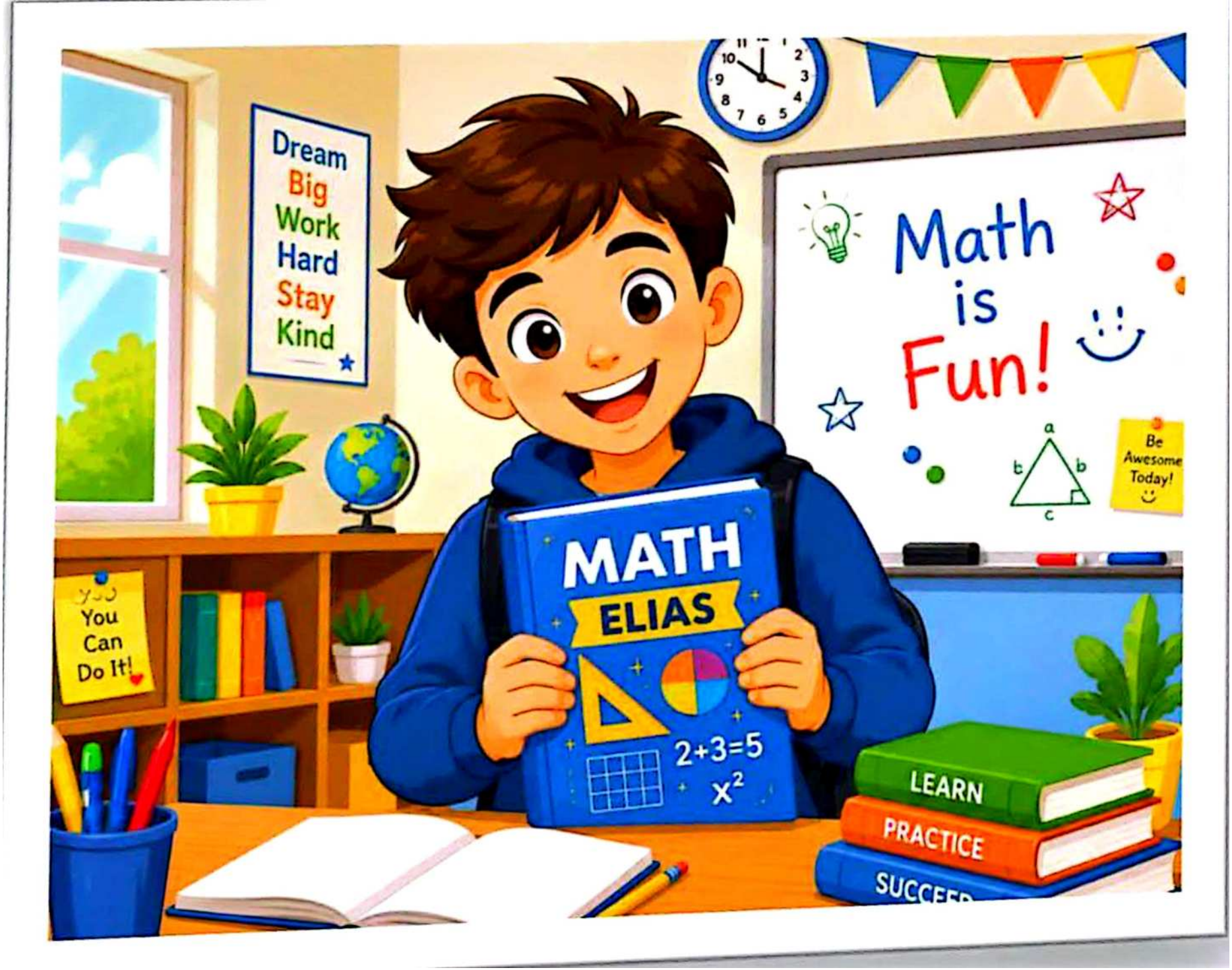
D.M.RAZK موقع الدكتور محمد رزق معلم الكيمياء التعليمي



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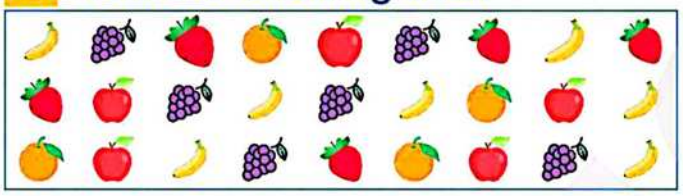
Lessons 1, 2

- Tables and graphs
- Let's Read tables and graphs

How to draw graphs:

- When we put the counting results in a graph, we can quickly determine which items have more or less number visually.
- When we put the counting results in tables, we can determine the exact number of each item.
- Steps of representing data on graphs:
  - Mark each one to count.
  - Start from bottom.
  - Put a circle ○ for each item.

Ex: From the following data:



(1) Write the name of the missing fruit and represent the number of fruits in the graph.

(2) Write the number of fruits on the table.

Number of fruits

Banana	Strawberry	Orange	Grapes	.....

Fruits	Banana	Strawberry	Orange	Grapes	.....
Number					

Sol:

Number of fruits

○				
○			○	
○	○		○	○
○	○	○	○	○
○	○	○	○	○
○	○	○	○	○
○	○	○	○	○
Banana	Strawberry	Orange	Grapes	Apple

Fruits	Banana	Strawberry	Orange	Grapes	Apple
Number	7	5	4	6	5

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Lessons 1, 2

- Tables and graphs
- Let's Read tables and graphs

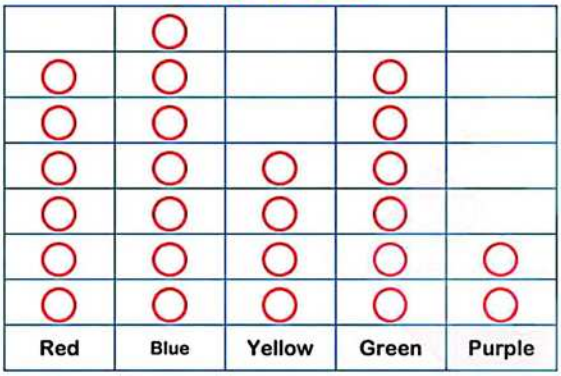
How to read graphs:

➢ Key words to solve graphs:

Question	Answer
• Most	Big
• Least	Small
• Same	Equal
• Which .....? • What .....?	Word
• How many .....? • What is the number .....?	Number
• And, total, all, sum, both	+
• More than, difference	–

Ex: A survey was made about favorite colors in the class:

Favorite color



Color	Red	Blue	Yellow	Green	Purple
Number					

(1) From the graph, complete the table

Color	Red	Blue	Yellow	Green	Purple
Number	6	7	4	6	2

(2) Which is the most favorite color? blue

(3) Which is the least favorite color? purple

(4) Which colors have the same number of students? Red and green

(5) Which group is more green color or yellow color? Green

(6) How many students like yellow color? 2

(7) How many more students like red than yellow? 6 – 4 = 2

(8) How many students like green and purple? 6 + 2 = 8

(9) Which easier to know the most and least: graph or table? graph

(10) Which easier to know the numbers: graph or table? table

• Draw graphs. • Read graphs.

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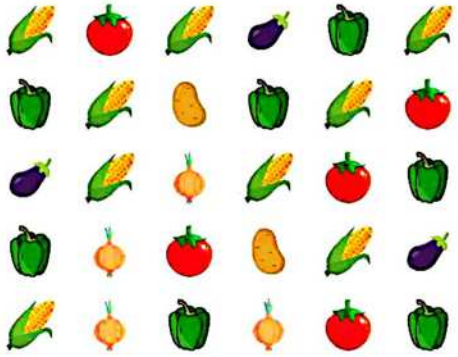
Q1: Answer the following:

1) Count, then answer:



a. Write the name of the missing vegetable and represent the number of vegetables in the graph

b. Write the numbers in the table

Number of vegetables

Tomatoes	Maize	Eggplant	Green pepper	Potatoes	.....

Number of vegetables

Vegetable	Tomatoes	Maize	Eggplant	Green pepper	Potatoes	Onion
Number						

2) Complete the graph and write numbers in the table:

Car	Motorcycle	Train	Plane	.....

Number of vehicles

Vehicles	Car	Motorcycle	Train	Plane	ship
Number					

- Teacher's comment: .....
- Parent's comment: .....

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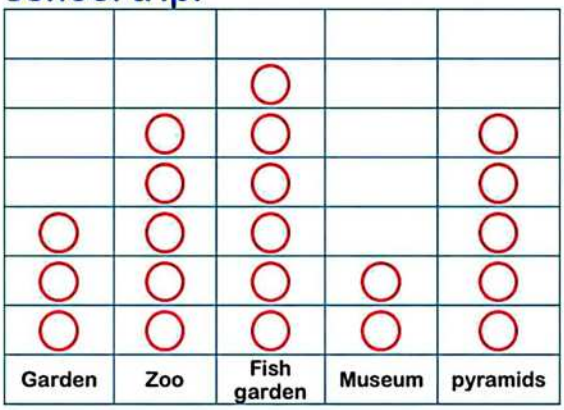
3) The graph shows a survey about favorite place of the students in a school trip:



Place	Garden	Zoo	Fish garden	Museum	Pyramid
Number					

(1) Complete the table

(2) Which is the most favorite place? .....

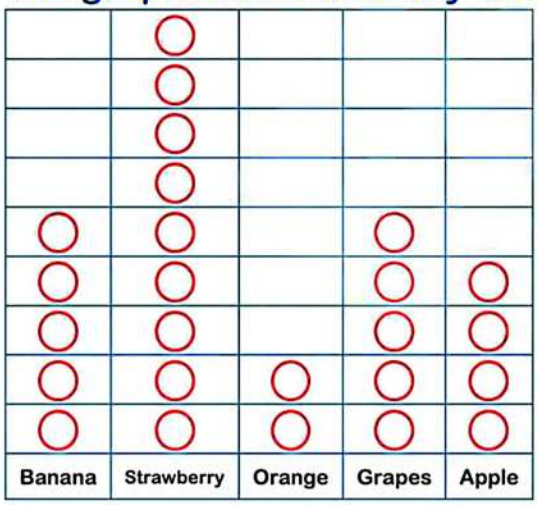
(3) Which is the least favorite place? .....

(4) Which group has more number: Fish garden or pyramids? .....

(5) Which two places have the same number of students? .....

(6) Which is easier to know numbers: graph or table? .....

4) The graph shows a survey about favorite fruit:



Fruit	Banana	Strawberry	Orange	Grapes	Apple
Number					

(1) Complete the table

(2) Which is the most favorite fruit? .....

(3) Which is the least favorite fruit? .....

(4) Which group has more number: banana or strawberry? .....

(5) Which two fruits have the same number of students? .....

(6) Which is easier to know the most and the least: graph or table? .....

• Teacher's comment: .....

• Parent's comment: .....

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5) Complete the graph and the table, then answer:

Favorite sport

Football	basketball	Volleyball	Handball	Tennis

Favorite sport

Sport	Football	Basketball	Volleyball	Handball	Tennis
Number					

(1) Complete the graph and the table

(2) Which is the most favorite sport? .....

(3) Which is the least favorite sport? .....

(4) How many students like volleyball? .....

(5) Which sport has more number: tennis or basketball? .....

(6) Which two sports have the same number of students? .....

(7) How many more students like football than volleyball? .....

(8) How many students like basketball and tennis? .....

• Teacher's comment: .....

• Parent's comment: .....

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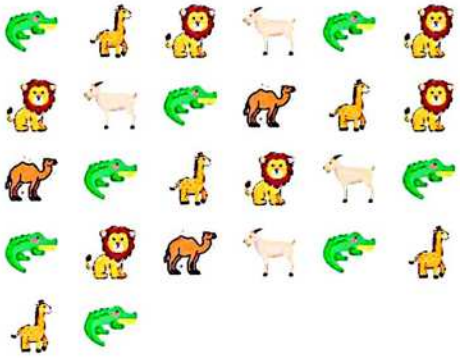
Q1: Answer the following:

1) Count, then answer:



Number of animals

Camel	Crocodile	Lion	Goat	.....

a. Write the name of the missing animal and represent the number of animal in the graph

b. Write the numbers in the table

Animal	Camel	Crocodile	Lion	Goat	Giraffe
Number					

2) The graph shows a survey about favorite food:

	○			
	○			
	○			
	○	○		○
○	○	○		○
○	○	○	○	○
○	○	○	○	○
Chicken	Pizza	Meat	Burger	Fries

Food	Chicken	Pizza	Meat	Burger	Fries
Number					

(1) Complete the table

(2) Which is the most favorite food? .....

(3) Which is the least favorite food? .....

(4) Which group has more number: fries or burger? .....

(5) Which foods have the same number of students? .....

(6) Which is easier to know numbers: graph or table? .....

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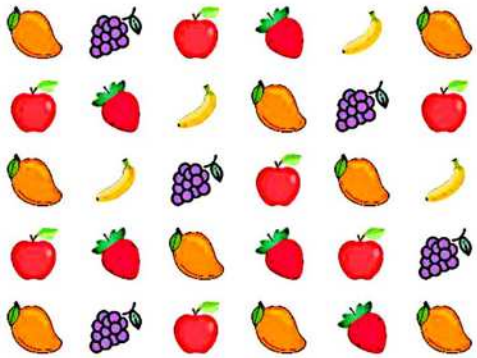
3) Complete the graph and the table, then answer:



Favorite fruit

Mango	Strawberry	Grapes	Apple	Banana

Favorite fruit

Fruit	Mango	Strawberry	Grapes	Apple	Banana
Number					

(1) Complete the graph and the table

(2) Which is the most favorite fruit? .....

(3) Which is the least favorite fruit? .....

(4) How many students like apple? .....

(5) Which sport has more number: grapes or banana? .....

(6) Which fruits have the same number of students? .....

(7) How many more students like mango than apple? .....

(8) How many students like banana and grapes? .....

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Q1: Answer the following:

1) Complete the graph and the table, then answer:

Favorite fruit

Apple	Banana	Strawberry	Mango	watermelon

Favorite fruit

Fruit	Apple	Banana	Strawberry	Mango	watermelon
Number					

(1) Complete the table

(2) Which is the most favorite fruit? .....

(3) Which is the least favorite fruit? .....

(4) Which group has more number: banana or mango? .....

(5) Which two fruits have the same number of students? .....

(6) Which is easier to know numbers: graph or table? .....

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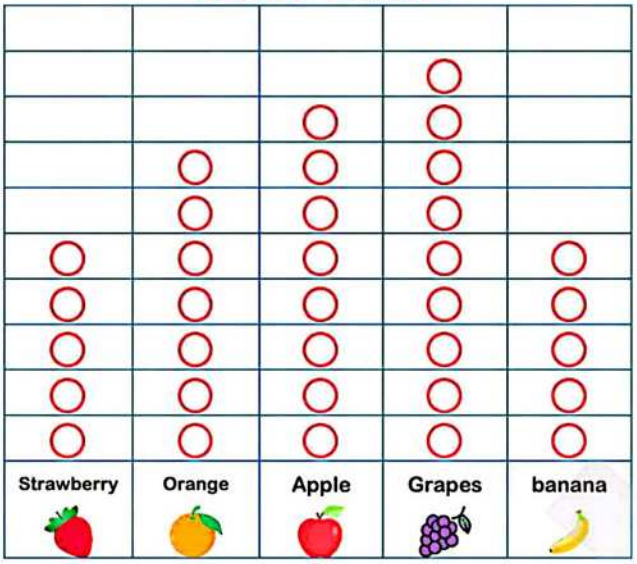
Compare graphs:

Ex: The two graphs show a survey about favorite fruit in 2 classes:

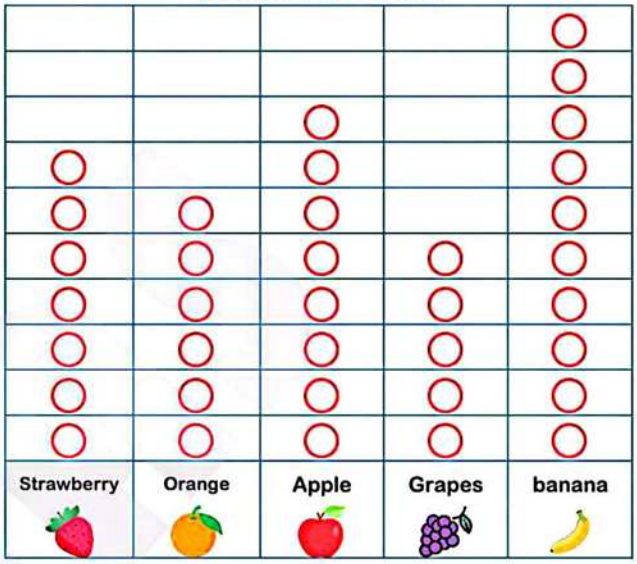
Class (1)

Number of fruits



Class (2)

Number of fruits



(1) Which is the most favorite fruit in class 1? grapes

(2) Which is the most favorite fruit in class 2? banana

(3) Which is the least favorite fruit in class 2? grapes

(4) Which class like banana more? Class 2

(5) Which fruit has the same number in both classes? Apple

(6) How many students likes orange in both classes? 7 + 6 = 13 students

(7) How many more students in class 1 like grapes than class 2? 9 – 5 = 4 students

(8) Which fruit has the greatest difference between its number in class 1 and its number in class 2?

Strawberry = 7 – 5 = 2 , orange = 7 – 6 = 1 , apple = 8 – 8 = 0 , grapes = 9 – 5 = 4 , banana = 10 – 5 = 5

Answer: banana

(9) Which fruit has the greatest total of its number in both classes?

Strawberry = 7 + 5 = 12 , orange = 7 + 6 = 13 , apple = 8 + 8 = 16 , grapes = 9 + 5 = 14, banana = 10 + 5 = 15

Answer: Apple

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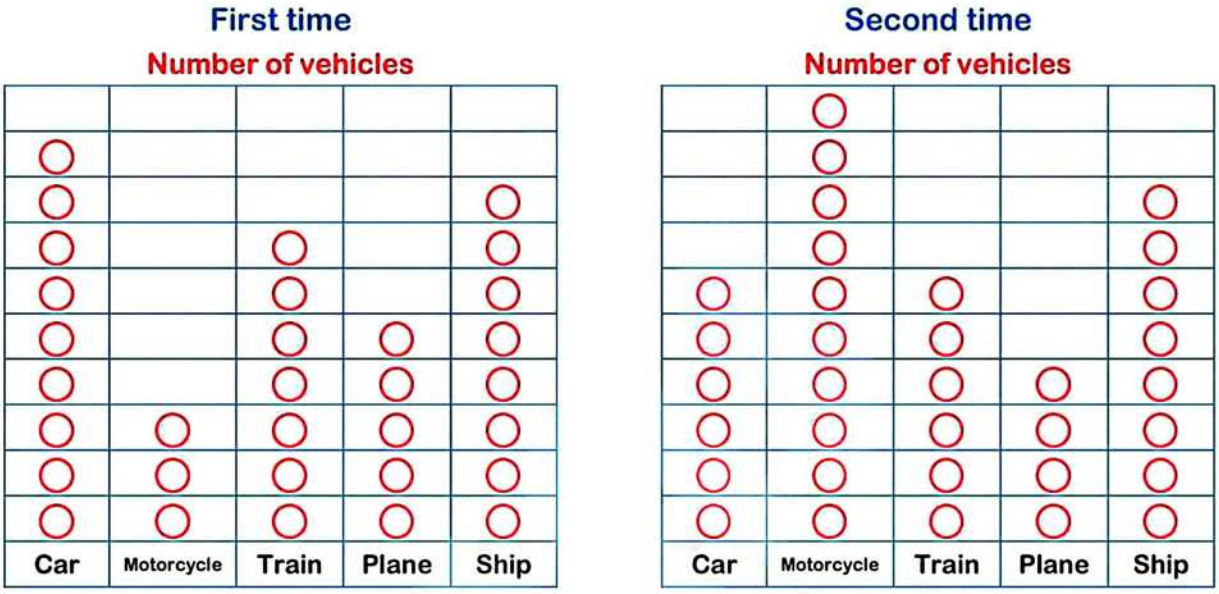
Q1: Answer the following:

1) The graphs shows a survey about a vehicles they want to ride in two times:



(1) Which vehicle is the most in first time?

.....

(2) Which vehicle is the most in second time?

.....

(3) Which vehicles has the same number in two times?

.....

(4) Which vehicle has the greatest total in two times?

.....

(5) Which vehicle has the greatest difference in two times?

.....

- Teacher's comment: .....
- Parent's comment: .....

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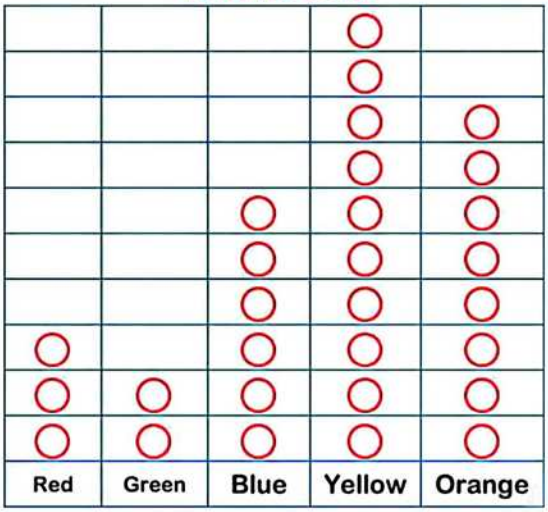
2) The graphs shows a survey about favorite color in two classes:

Class 1

Favorite color



Class 2

Favorite color

(1) Which is the most favorite color in class 1?

.....

(2) Which is the least favorite color in class 2?

.....

(3) Which class like a green color more?

.....

(4) Which class has 3 students like red?

.....

(5) Which color has the same number in both two classes?

.....

(6) Which color has the greatest total in two classes?

.....

(7) Which color has the greatest difference in two classes?

.....

• Teacher's comment: .....

• Parent's comment: .....

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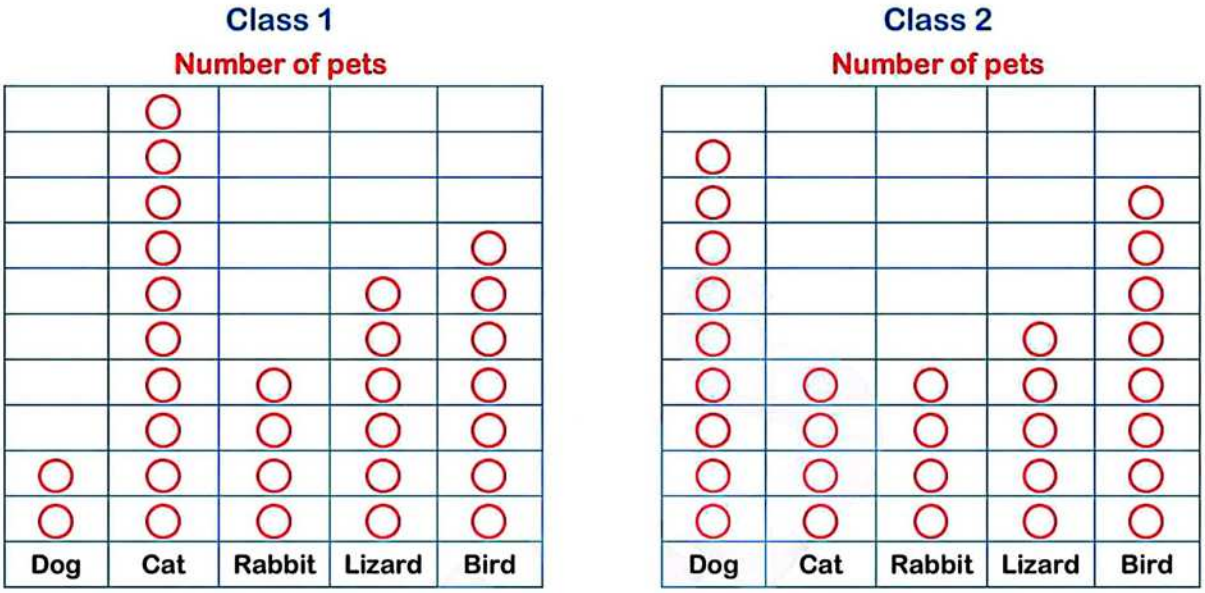
Q1: Answer the following:

1) The graphs shows a survey about favorite pet in two classes:



(1) Which is the most favorite pet in class 1?

.....

(2) Which is the most favorite pet in class 2?

.....

(3) Which pet has the same number in both classes?

.....

(4) Which pet has the greatest total in both classes?

.....

(5) Which pet has the greatest difference in both classes?

.....

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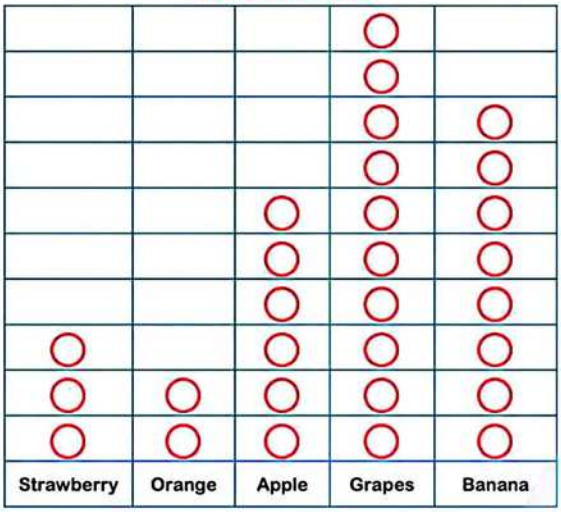
2) The graphs shows a survey about favorite fruits in two classes:

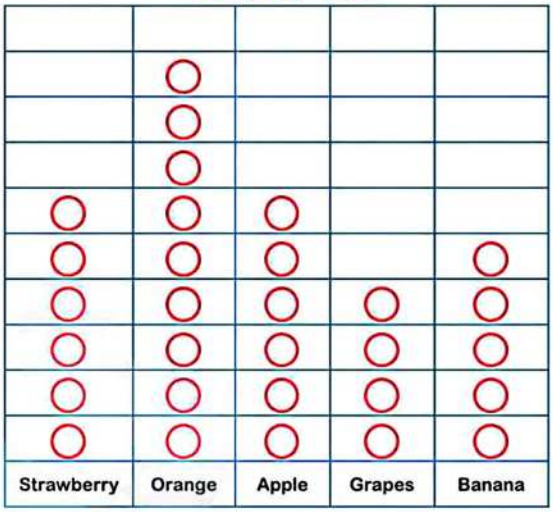
Class 1

Favorite fruit



Class 2

Favorite fruit



(1) Which is the most favorite fruit in class 1?

.....

(2) Which is the least favorite fruit in class 2?

.....

(3) Which fruit has the same number in both two classes?

.....

(4) Which fruit has the greatest total in two classes?

.....

(5) Which fruit has the greatest difference in two classes?

.....

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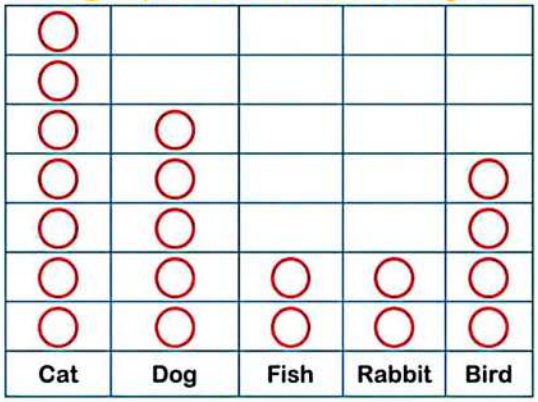
Q1: Answer the following:

1) The graph shows a survey about favorite pet:



Fruit	Cat	Dog	Fish	Rabbit	Bird
Number					

(1) Complete the table

(2) Which is the most favorite pet? .....

(3) Which is the least favorite pet? .....

(4) Which group has more number: dog or fish? .....

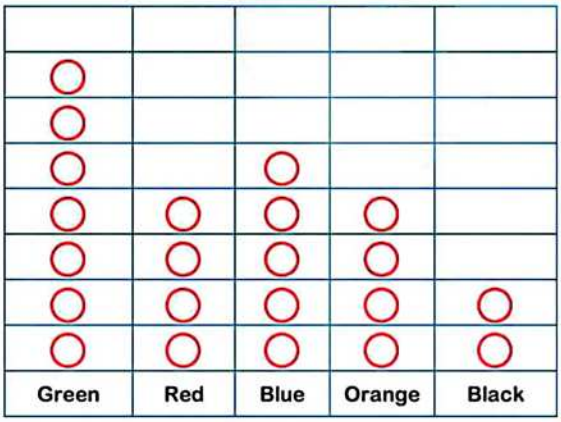
(5) Which two pets have the same number of students? .....

(6) Which is easier to know the most and the least: graph or table? .....

2) The graphs shows a survey about favorite color in two classes:

Class 1

Favorite color



Class 2

Favorite color

(1) Which is the most favorite color in class 1? .....

(2) Which is the least favorite color in class 2? .....

(3) Which color has the same number in both classes? .....

(4) Which color has the greatest total in both classes? .....

(5) Which color has the greatest difference in two classes? .....

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موقع الدكتور محمد رزق التعليمي

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Dr.MoRizK